Notice of Allowability	Application No.	Applicant(s)		
	10/668,254	NORITO, YASUJI		
	Examiner	Art Unit		
	Tung S. Lau	2863		
The MAILING DATE of this communication appe	ears on the cover sheet with the co	orrespondence addre	988	
All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due of	ed course. THIS	
1. This communication is responsive to <u>09/08/2005</u> .				
2. X The allowed claim(s) is/are <u>1-22</u> .				
 Acknowledgment is made of a claim for foreign priority un a) All b)			•	
 I. ☐ Certified copies of the priority documents have been received. I. ☐ Certified copies of the priority documents have been received in Application No 				
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 Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)). 	cuments have been received in this r	national stage applicat	ion from the	
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE"	of this communication to file a reply of	complying with the rea	uiremente	
noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	· ·		ullements	
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.			
(a) Including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-9	948) attached		
1) hereto or 2) to Paper No./Mail Date		•		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the O	ffice action of		
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the	• ••	•	back) of	
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I			ote the	
Attachment(s)				
1. Notice of References Cited (PTO-892)	5. Notice of Informal Page 1	atent Application (PTC)-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	•		
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date <u>See office action</u> Examiner's Comment Regarding Requirement for Deposit of Biological Material 	Paper No./Mail Date 7. Examiner's Amendment/Comment			
	8. Examiner's Stateme	8. Examiner's Statement of Reasons for Allowance		
	9. Other	9.		

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09/08/2005 has been entered.

Information Disclosure Statement

2. Information Disclosure Statement filed on 08/15/2005 is acknowledged by the examiner; A copy of a signed PTO-1449 attached with this office action.

Prior Art Cited

at a first switching frequency. The controller changes the switching frequency to a second frequency in response to a change in the load signal.

Allowable Subject Matter

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4. Claims 1-22 are allowed.

Reasons for Allowance

5. The following is an examiner's statement of reasons for allowance:

Independent claims 1, 3, 7, 11, and 17 contain allowable subject matter. None of

the prior art of record shows or fairly suggests the claimed invention.

Regarding claim 1:

The primary reason for the allowance of claim 1 is the inclusion of device for

setting a hysteresis characteristic to an input device including when said voltage

given to said first port is equal or higher than the threshold and said voltage given

to said second port is lower than the threshold, determining said input signal to

have the same level as an earlier determination. It is these features found in the

claim, as they are claimed in the combination, that has not been found, taught or

suggested by the prior art of record which makes this claim allowable over the

prior art.

Claim 2 is allowed due to their dependency on claim 1.

Regarding claim 3:

The primary reason for the allowance of claim 3 is the inclusion of device for

setting a hysteresis characteristic to an input device including

when said first signal is equal to or higher than said predetermined threshold

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and said second signal is lower than said predetermined thresholds said setting section outputs a same level signal as an earlier output signal. It is these features found in the claim, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

Claims 4, 5 and 6 are allowed due to their dependency on claim 3.

Regarding claim 7:

The primary reason for the allowance of claim 7 is the inclusion a method for setting a hysteresis characteristic to an input device including said hysteresis characteristic of said input signal is defined as the same as an earlier output signal in a case that said first signal is equal to or higher than said predetermined threshold in the result of said said comparing and said second signal is lower than said predetermined threshold in the result of said second comparing. It is these features found in the claim, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

Claims 8, 9 and 10 are allowed due to their dependency on claim 7.

Regarding claim 11:

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The primary reason for the allowance of claim 11 is the inclusion a device for setting a hysteresis characteristic to an input device including determines a same level as an earlier determination exists when said first voltage is equal to or higher than said predetermined threshold and said second voltage is lower than said predetermined threshold. It is these features found in the claim, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

Claims 12-16 are allowed due to their dependency on claim 11.

Regarding claim 17:

The primary reason for the allowance of claim 17 is the inclusion a method for setting a hysteresis characteristic to an input device including determining that a same level as an earlier determination exists when said first voltage is equal to or higher than said predetermined threshold and said second voltage is lower than said predetermined threshold. It is these features found in the claim, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

Claims 18-22 are allowed due to their dependency on claim 17.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung S Lau whose telephone number is 571-272-2274. The examiner can normally be reached on M-F 9-5:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 571-272-2269. The fax phone numbers for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER

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